

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P748342

Luminaire Tested: LD4D45BD010-EU4DR3040509030-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748342
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D45BD010-EU4DR3040509030-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

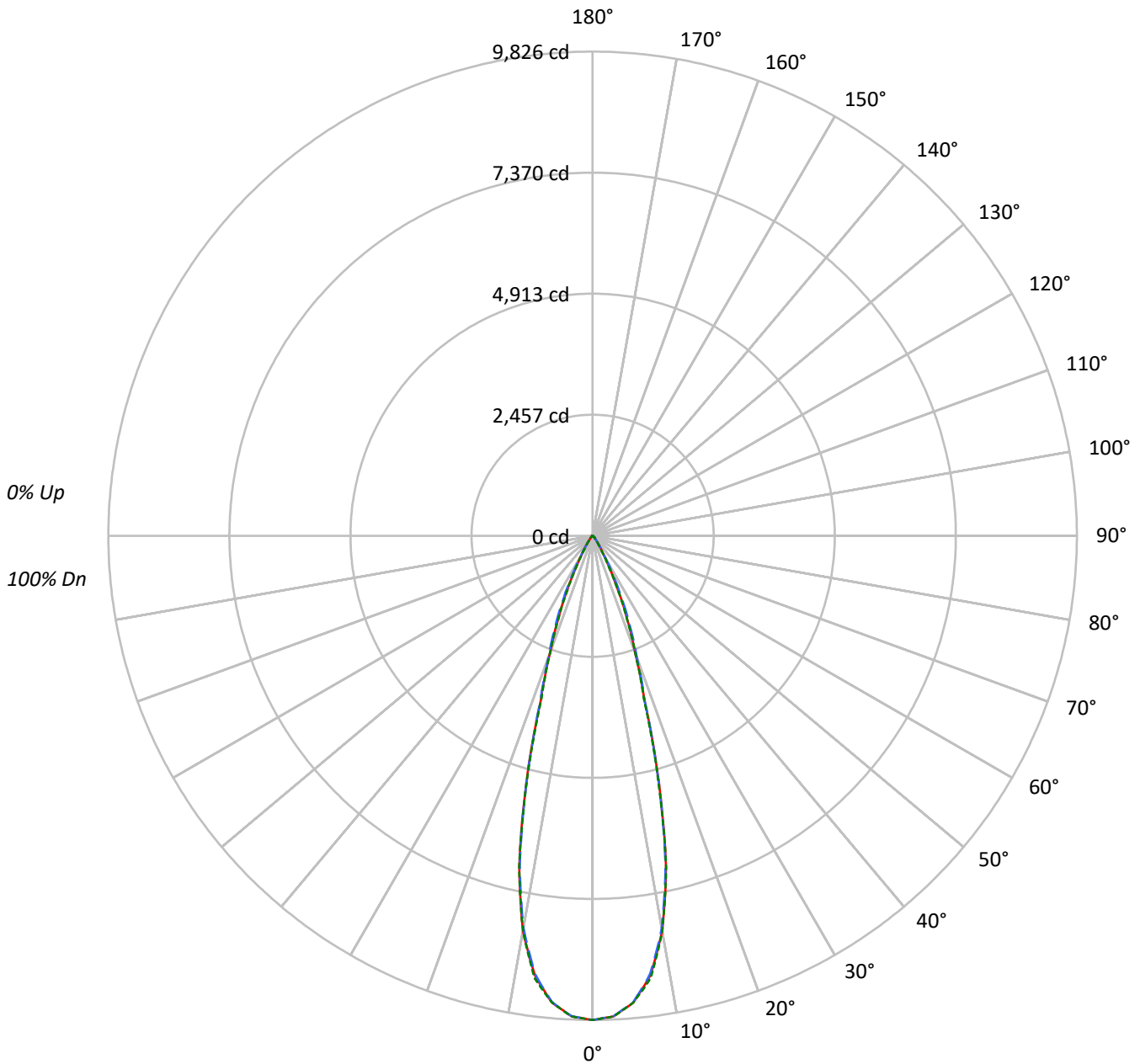
Lumens per Lamp: N/A
Luminaire Lumens: 3055.8 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	752108	752108	752108
5°	730516	729663	730555
10°	632737	628276	632590
15°	412835	410616	408548
20°	205285	212982	205008
25°	103408	116609	101288
30°	41399	45112	36070
35°	19202	18389	15418
40°	8293	9203	7814
45°	5845	7263	5900
50°	2012	5287	2120
55°	1161	2189	1228
60°	811	964	811
65°	525	525	525
70°	313	224	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7263 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	864.0	28.3
10°-20°	1391.5	45.5
20°-30°	601.3	19.7
30°-40°	137.1	4.5
40°-50°	47.1	1.5
50°-60°	11.5	0.4
60°-70°	3.0	0.1
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2856.9	93.5
0°-40°	2994.0	98.0
0°-60°	3052.5	99.9
0°-90°	3055.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3055.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9826	9826	9826	9826	9826	
5°	9508	9498	9496	9516	9508	865
15°	5210	5147	5182	5165	5156	1395
25°	1224	1271	1381	1238	1199	586
35°	206	210	197	195	165	139
45°	54	67	67	67	54	38
55°	9	9	16	10	9	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9825.9	9825.9	9825.9	9825.9	9825.9
2.5°	9760.8	9754.1	9757.9	9762.7	9764.7
5°	9507.5	9498.4	9496.4	9516.2	9508.0
7.5°	8996.7	8983.6	8963.8	9008.7	9050.7
10°	8140.8	8126.4	8083.4	8104.7	8138.9
12.5°	6877.4	6830.6	6829.6	6897.2	6888.0
15°	5209.7	5146.9	5181.7	5164.8	5155.6
17.5°	3503.3	3479.2	3525.5	3511.5	3451.2
20°	2520.2	2526.4	2614.7	2570.3	2516.8
22.5°	1839.0	1861.7	1966.3	1852.0	1810.0
25°	1224.4	1270.7	1380.7	1238.4	1199.3
27.5°	753.1	774.3	885.7	743.4	722.2
30°	468.4	457.8	510.4	438.0	408.1
32.5°	307.3	293.8	310.7	278.8	254.7
35°	205.5	209.9	196.8	195.4	165.0
37.5°	128.3	147.6	130.3	138.9	106.1
40°	83.0	107.1	92.1	101.8	78.2
42.5°	68.0	82.5	75.7	80.6	69.5
45°	54.0	67.1	67.1	67.1	54.5
47.5°	29.9	44.9	57.4	45.8	31.8
50°	16.9	22.7	44.4	23.6	17.8
52.5°	11.6	13.0	30.4	13.5	12.1
55°	8.7	9.2	16.4	9.6	9.2
57.5°	6.8	7.2	8.7	7.2	6.8
60°	5.3	5.3	6.3	5.8	5.3
62.5°	3.9	3.9	4.3	3.9	3.9
65°	2.9	2.9	2.9	2.9	2.9
67.5°	1.4	1.9	1.9	1.9	1.9
70°	1.4	1.0	1.0	1.0	1.4
72.5°	1.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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